

Please enter the substitute specification as attached hereto. Also enclosed is marked-up copy of the substitute specification showing additions and deletions.

IN THE CLAIMS:

Please cancel claims 12 through 15.

Please amend the claims as follows:

1 1. (Amended) A method for transferring data on a bus  
2 system [in which] using both isochronous communication and asynchronous  
3 communication [are employed]; said isochronous communication is for any  
4 device on the bus to receive synchronous data; said asynchronous  
5 communication is for a predetermined device to receive asynchronous data;  
6 said synchronous data [may] capable of containing actual data[;] and [said  
7 synchronous data also contains] encryption identification information [at an  
8 area other than said actual data; said encryption identification information  
9 indicates the status of encryption of said] indicating encrypted actual data;  
10 and encrypted actual data is decrypted using decrypting information obtained  
11 through the following steps:

12 a) [a receiving device] receiving said synchronous data [makes  
13 a] at a receiving device, and said receiving device via said asynchronous  
14 communication requesting [for] decrypting information [of] for said actual  
15 data [to] from a sending device sending said synchronous data [via said

16 asynchronous communication], if said encryption identification [information  
17 indicates that said] indicates encrypted actual data [is encrypted];

18 b) [said sending device] receiving said request [sends] at said  
19 sending device and said sending device sending one of:

20 i) encrypted decrypting information of said actual data; and

21 ii) [data required for obtaining said] decrypting information data  
22 for obtaining said decrypting information,

23 to said receiving device via said asynchronous communication;

24 and

25 c) [said receiving device executes] executing at said receiving  
26 device one of:

27 i) [taking out] extracting said decrypting information from said  
28 encrypted decrypting information [when said receiving device receives said  
29 encrypted decrypting information]; and

30 ii) obtaining said decrypting information using said [data for  
31 obtaining said] decrypting information data [when said receiving device  
32 receives said data for obtaining decrypting information].

1 2. (Amended) The method for transferring data as defined  
2 in Claim 1, wherein a plurality of [types of] procedures are available between  
3 the steps of detecting [encryption of said] encrypted actual data and obtaining

4 said decrypting information by said receiving device receiving said  
5 synchronous data; and said receiving device executes the [next] following  
6 steps for obtaining said decrypting information before requesting said  
7 decrypting information:

8 i) querying said sending device of types of procedures  
9 executable by said sending device before requesting said decrypting  
10 information;

11 ii) selecting a procedure from those executable by both said  
12 sending device and receiving device; and

13 iii) obtaining said decrypting information in accordance with  
14 said selected procedure.

1 3. (Amended) The method for transferring data as defined  
2 in Claim 2, wherein [said] a procedure is selected in accordance with a  
3 predetermined priority when there are a plurality of procedures executable by  
4 both of said sending device and said receiving device.

1 4. (Amended) The method for transferring data as defined  
2 in Claim 1, wherein a plurality of [types of] procedures are available between  
3 the steps of detecting [encryption of said] encrypted actual data and obtaining  
4 [of] said decrypting information by said receiving device receiving said  
5 synchronous data; and said receiving device executes the [next] following  
6 steps for obtaining said decrypting information:

7 i) starting [said] a procedure selected from said plurality of  
8 [types of] procedures in accordance with a predetermined priority;

9 ii) re-selecting [one of] said procedures one-by-one until [said] a  
10 procedure executable by said sending device is found [when the procedure  
11 selected by said receiving device is not executable by said sending device];  
12 and

13 iii) obtaining said decrypting information in accordance with the  
14 selected procedure [when a procedure] executable by said sending device [is  
15 found].

1 5. (Amended) The method for transferring data as defined  
2 in [one of] Claim[s] 2 [to 4], wherein said asynchronous data transmitted  
3 between said sending device and said receiving device in accordance with  
4 said selected procedure contains an identifier for indicating the type of said  
5 procedure executed.

1 6. (Amended) The method for transferring data as defined  
2 in one of Claims 1 to 5, 16 and 17, wherein said receiving device  
3 authenticates whether said sending device is an authorized sending device  
4 before making a request for said decrypting information.

1 7. (Amended) The method for transferring data as defined  
2 in one of Claims 1 to 5, 16 and 17, wherein said sending device receiving a  
3 request for said decrypting information authenticates that said receiving

4 device is an authorized receiving device before sending encrypted decrypting  
5 information of said actual data [after confirming].

1 8. (Amended) The method for transferring data as defined  
2 in one of Claims 1 to 5, 16 and 17, wherein said sending device and said  
3 receiving device [mutually] are authenticated [that both are] as authorized  
4 [sending] devices [and receiving device] before said receiving device makes a  
5 request for said decrypting information.

1 9. (Amended) The method for transferring data as defined  
2 in one of Claims 1 to 5, 16 and 17 [8], wherein the [next] following steps are  
3 executed before said receiving device makes a request for said decrypting  
4 information:

5 i) said receiving device [sends] sending information required by  
6 said sending device at least for [creating] establishing a common key [to]  
7 with said sending device; and

8 ii) said sending device [sends] sending information required by  
9 said receiving device at least for [creating] establishing said common key [to]  
10 with said receiving device;

11 and [then] said sending device [encrypts] encrypting said  
12 decrypting information using said common key and [sends] sending said  
13 encrypted decrypting information; and said receiving device [takes out]  
14 extracting said decrypting information from said encrypted decrypting  
15 information received using said [common] encryption key.

1 11. (Amended) The method for transferring data as defined  
2 in one of Claims 1 to 5, 16 and 17, wherein said sending device [has]  
3 includes a signal source [of] for said actual data [inside] and determines  
4 encryption of [each of] said actual data in a fixed length unit which is output  
5 from said signal source; and said sending device places encrypted actual data  
6 and non-encrypted actual data in different output units of said synchronous  
7 communication, and then outputs them to said bus system.

Please add new claims 16 through 20.

1 16. (Newly Added) The method for transferring data as  
2 defined in Claim 3, wherein said asynchronous data transmitted between said  
3 sending device and said receiving device in accordance with said selected  
4 procedure contains an identifier for indicating the type of said procedure  
5 executed.

1 17. (Newly Added) The method for transferring data as  
2 defined in Claim 4, wherein said asynchronous data transmitted between said  
3 sending device and said receiving device in accordance with said selected  
4 procedure contains an identifier for indicating the type of said procedure  
5 executed.

1 18. (Newly Added) The method for transferring data as  
2 defined in Claims 1 to 5, 16 and 17, wherein said receiving device

4 i) said receiving device sending information required by said  
5 sending device at least for establishing a common key with said sending  
6 device; and